

## CLAIMS

What is claimed is:

1. An apparatus comprising:  
  
a container having at least one flexible wall, a fluid receiving port, a fluid discharge port, and a plurality of compartments fluidly coupled to at least one of the fluid receiving port and the fluid discharge port;  
  
wherein the fluid receiving port receives a continuous flow of a biological fluid that includes a target antigen, and wherein the fluid discharge port emits a continuous flow of the biological fluid that is at least partially depleted from the target antigen;  
  
wherein at least one of the compartments further comprises a plurality of magnetic beads that are coupled to an affinity marker that binds the target antigen; and  
  
wherein the target antigen is separated from the biological fluid using a magnetic force and an automatic mechanical force, wherein at least one of the magnetic force and automatic mechanical force is transmitted through the flexible wall.
2. The apparatus of claim 1 wherein at least one of the compartments includes a fluid selected from the group consisting of a buffer, a wash fluid, an isotonic fluid, and an elution fluid.
3. The apparatus of claim 1 wherein the affinity marker is selected from the group consisting of an antibody, an antibody fragment, and a lectin.
4. The apparatus of claim 1 wherein at least one of the compartments further includes a port that allows draining of the least one of the compartments.
5. The apparatus of claim 1 wherein the biological fluid comprises whole blood.
6. The apparatus of claim 1 wherein the target antigen is selected from the group consisting of a stem cell, a diseased cell, a bacterium, and a virus.